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EDML-226, Rev.-'Nil'

**SWITCH PLATE ASSEMBLY ALONG WITH USB MOBILE CHARGING SOCKETS FOR LHB EOG NON-AC
COACHES FOR AMRIT BHARAT RAKE**

This document is prepared to EDML-226, Rev-Nil, for Switch plate assembly with Type -A & C USB mobile charging socket for provision on either side of each cabin in LHB EOG Non-AC Coaches For Amrit Bharat Rake (with wider windows).

Table-1**1. LHB EOG NON-AC LGS COACHES.**

Item no.	Description	Qty.	Marking on switches	Ref. Drg. No.
1.	Switch plate assembly complete with polycarbonate cover frame and powder coated steel plate with 3 nos. ON-OFF switches and 2 nos. Type-A & C USB mobile charging socket	1 set.	CS,F,CS	Drg.no.CC74257 Alt-'Nil', Item-1 (1 set comprising 30 switch plates)

Table-2**2. LHB EOG NON-AC LSCN COACHES.**

Item no.	Description	Qty.	Marking on switches	Ref. Drg. No.
1.	Switch plate assembly complete with polycarbonate cover frame and powder coated steel plate with 4 nos. ON-OFF switches and 2 nos. Type -A & C USB mobile charging socket	1 set.	CS, F,F,CS	Drg.no.CC74258 Alt-'Nil', Item-1 (1 set comprising 10 switch plates)
2	Switch plate assembly complete with polycarbonate cover frame and powder coated steel plate with 3 nos. ON-OFF switches and 2 nos. Type -A & C USB mobile charging socket	1 set.	CS,L,CS	Drg.no.CC74258 Alt-'Nil', Item-2 (1 set comprising 10 switch plates)
3.	Switch plate assembly complete with polycarbonate cover frame and powder coated steel plate with 1 no. ON-OFF switches and 1 no. Type -A & C USB mobile charging socket	1 set.	CS	Drg.no.CC74258 Alt-'Nil', Item-3 (1 set comprising 30 switch plates)
4.	Switch plate assembly complete with polycarbonate cover frame and powder coated steel plate with 4 nos. ON-OFF switches and 1 no. Type -A & C USB mobile charging socket	1 set.	F,L,NL,CS	Drg.no.CC74258 Alt-'Nil', Item-4 (1 set comprising 10 switch plates)

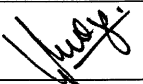
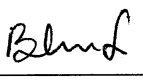
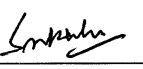
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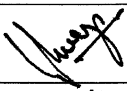
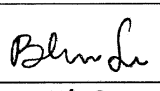
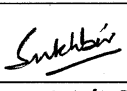
Table-3**3.LHB EOG NON-AC LSLRD COACHES.**

Item no.	Description	Qty.	Marking on switches	Ref. Drg. No.
1.	Switch plate assembly complete with polycarbonate cover frame and powder coated steel plate with 4 nos. ON-OFF switches and 2 nos. Type -A & C USB mobile charging socket	1 set.	CS,F F,CS	Drg.no.CC74259 Alt-'Nil', Item-1 (1 set comprising 03 switch plates)
2	Switch plate assembly complete with polycarbonate cover frame and powder coated steel plate with 1 no. ON-OFF switches and 1 no. Type -A & C USB mobile charging socket	1 set.	CS	Drg.no.CC74259 Alt-'Nil',Item-2 (1 set comprising 04 switch plates)
3.	Switch plate assembly complete with polycarbonate cover frame and powder coated steel plate with 3 nos. ON-OFF switches and 1 no. Type -A & C USB mobile charging socket	1 set.	F,F, F,CS	Drg.no.CC74259 Alt-'Nil',Item-3 (1 set comprising 01 switch plates)
4.	Switch plate assembly complete with polycarbonate cover frame and powder coated steel plate with 2 nos. ON-OFF switches and 2 nos. Type -A & C USB mobile charging socket	1 set.	CS,CS	Drg.no.CC74259 Alt-'Nil',Item-4 (1 set comprising 01 switch plates)
5.	Switch plate assembly complete with polycarbonate cover frame and powder coated steel plate with 2 nos. ON-OFF switches and 1 no. Type -A & C USB mobile charging socket	1 set.	F,CS	Drg.no.CC74259 Alt-'Nil',Item-5 (1 set comprising 04 switch plates)
6.	Switch plate assembly complete with polycarbonate cover frame and powder coated steel plate with 3 nos. ON-OFF switches and 1 no. Type -A & C USB mobile charging socket	1 set.	L,F,CS	Drg.no.CC74259 Alt-'Nil',Item-6 (1 set comprising 04 switch plates)

* Equivalent with the approval from the office of CEDE/RCF.

Packing conditions of switch plates shall be as follows:

- Stage 1: Standard packing of switch plates mentioned above as per packing conditions document no. PI042.
- Stage 2: Packing per coach set as per packing conditions document no. PI021. Each packing shall be legibly marked for the Type of coach applicable for.
- Stage 3: Bulk packing coach wise as per packing conditions document no. PI032. Each packing shall be legibly marked for the Type of coach/coaches applicable for.

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N.B :

- i. Firm shall get prototype sample approved from CEDE/RCF before commencing bulk supply.
- ii. Switches shall be conforming to IS: 3854-1997 and both shall be 'ISI' marked.
- iii. Wiring for switch, socket to be provided with 1.5 sq.mm E-Beam cable to specification no. ELRS/SPEC/ELC/0019, latest applicable & procured from RDSO approved sources.
- iv. For Contact opening in Switch, Normal Gap Construction shall be followed as per Clause No. 7.1.2 of IS: 3854-1997.
- v. Switch shall be of unenclosed Type as per Clause No. 7.1.3 of IS: 3854-1997.
- vi. Switch shall conform to Degree of Protection: IPX0 as per Clause No. 7.1.4 of IS: 3854-1997.
- vii. Method of Activation of Switch shall be of Rocker Type as per Clause No. 7.1.5 of IS: 3854-1997.
- viii. Switch shall be Flush Type as per Clause No. 7.1.6 of IS: 3854-1997.
- ix. Switch shall be installed as per Design A mentioned in the Clause No. 7.1.7 of IS: 3854-1997.
- x. Switch and Socket shall be screwed Type on powder coated steel/GI without powder coated base plate of minimum thickness 1.0 mm with M3 screws with nut and spring washer/ Snap fit modular Type with insert moulded metal frame in fire retardant polycarbonate plate.
- xi. The Module With Type-A & C USB Charger Shall Conform To Spec. No. Edts-455.,Rev-Nil.
- xii. Dimensions Are Shown For Reference Only. Supplier Shall Get Prior Approval Of Drawing Before Prototype/Bulk Supplies. The Module Shall Be Suitable For Fitment In Existing Switch Plates Provided In LHB Type Ac/Non-Ac Coaches.

Tests :

Following test shall be conducted from Govt. / NABL accredited lab:-

1. Test for Polymer identification of FR polycarbonate material.
2. Fire retardant test to grade UL-94 V0 from the OEM of the raw material.

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12. DIMENSIONS ARE SHOWN FOR REFERENCE ONLY. SUPPLIER SHALL GET PRIOR APPROVAL OF DRAWING BE FORE PROTOTYPE/BULK SUPPLIES. THE MODULE SHALL BE SUITABLE FOR FITTMENT IN EXISTING SWITCH PLATES PROVIDED IN LHB TYPE AC/NON-AC COACHES. 11. THE MODULE WITH TYPE-A & C USB CHARGER SHALL CONFORM TO SPEC. NO. EDTS-455.,REV-NIL. 10. FRAMED DIMENSIONS SHALL BE STRICTLY ADHERED TO BY JIG PUNCHING. 9. SWITCH SHALL CONFORM TO IS3854-1997 OR LATEST & BOTH SHALL BE ISI MARKED. 8. COVER FRAME OF THE SWITCH PLATE ASSEMBLY SHALL BE OF WHITE COLOR ONLY. 7. PROTOTYPE SAMPLE SHALL BE GOT VALIDATED BEFORE COMMENCING BULK SUPPLY. 6. MANUFACTURER'S INSIGNIA SHALL BE EMBOSSED. 5. SWITCH & USB SOCKET SHALL BE SCREWED ON POWDER COATED STEEL/GI WITHOUT POWDER COATED BASE PLATE OF MIN. THICKNESS 1.0 MM WITH MIN. M3 SCREWS COMPLETE WITH HEX.NUT & SPRING WASHER/SNAP FIT TYPE INSERT MODULED METAL FRAME IN FIRE-RETARDANT POLYCARBONATE PLATE. 4. WIRING FOR SWITCH, USB SOCKET AND FUSE CONNECTIVITY TO BE PROVIDED WITH 1.5 SQ.MM, E-BEAM CABLE TO SPECIFICATION, NO.ELRS/SPEC/ELC/0019,LATEST APPLICABLE & PROCURED FROM RDSO APPROVED SOURCES. 3. SHROUD TO BE PROVIDED AROUND THE REAR OF THE LIVE TERMINALS OF THE SWITCH. 2. ALL MOUNTING HOLES SHOULD BE ELLIPTICAL OF SIZE 12MM.X4MM. AND SUITABLE FOR M3 SCREW. 1. ALL DIMENSIONS IN MM. NOTE:-																																																																																	
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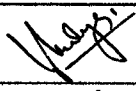
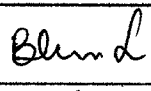
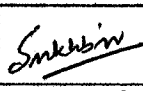
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Amendment-1 to Doc. No. EDML-226, Rev.-Nil for Switch Plate Assembly Along With USB Mobile Charging Sockets For LHB EOG NON-AC Coaches for Amrit Bharat Rake

This amendment is issued to document no. EDML-226, Rev-Nil for Switch plate assembly with Type -A & C USB mobile charging socket for LHB EOG Non-AC Coaches for Amrit Bharat Rake **(with wider windows)** to incorporate the following modifications:-

1. EDTS-455, Rev- Nil shall be read as **EDTS-455, Rev-Nil, Am-1.**
2. Drg. No. CC74257, Alt-Nil shall be read as **CC74257, Alt-'a'.**
3. Drg. No. CC74258, Alt-Nil shall be read as **CC74258, Alt-'a'.**
4. Drg. No. CC74259, Alt-Nil shall be read as **CC74259, Alt-'a'.**

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ITEM-1 CABIN & CORRIDOR SIDE 93 229 81 169 178 200 221 46 63 1 5 MOUNTING PLATE 65 181 CUTOUT SIZE IN PANEL DRAWING FOR REFERENCE ONLY													<table><tr><td>ALT.NO</td><td>ALT.DATE</td><td>ZONE</td><td>ALTERATIONS</td><td>AUTHORITY</td></tr><tr><td>□</td><td>19.06.2024</td><td>ALL</td><td>1. NOTE-11 MODIFIED AND DRAWING UPDATED ACCORDINGLY</td><td>CR NO:- 2300240008</td></tr></table>		ALT.NO	ALT.DATE	ZONE	ALTERATIONS	AUTHORITY	□	19.06.2024	ALL	1. NOTE-11 MODIFIED AND DRAWING UPDATED ACCORDINGLY	CR NO:- 2300240008																																																																											
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DETAIL DRGS STARTING WITH "LI" ARE INTERNAL REFERENCE LISTS ONLY AND ARE NOT FOR ISSUE

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FOR UNTOLERANCED DIMENSIONS REFER MDG0008

DATE OF FIRST ISSUE

16/05/2024

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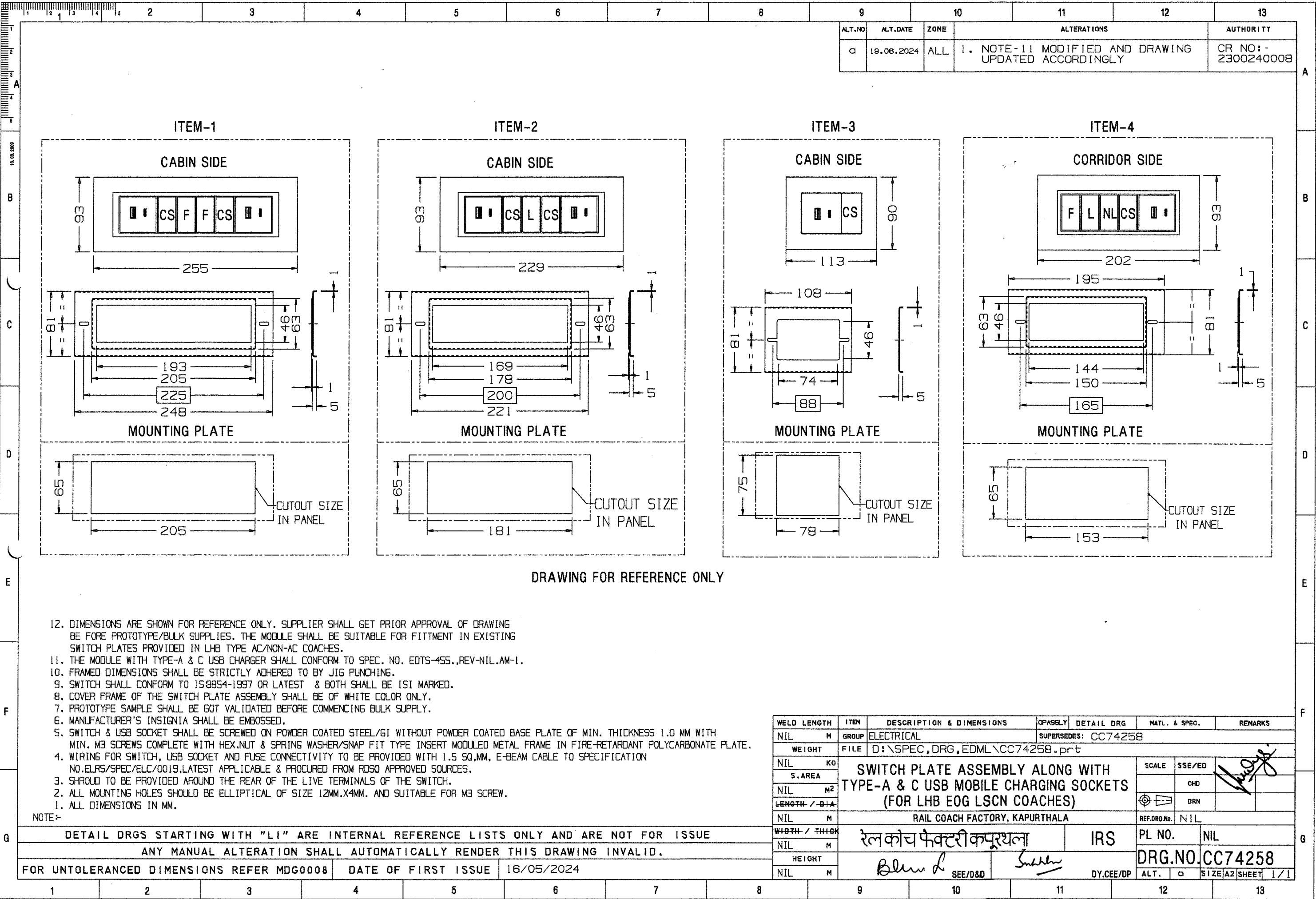
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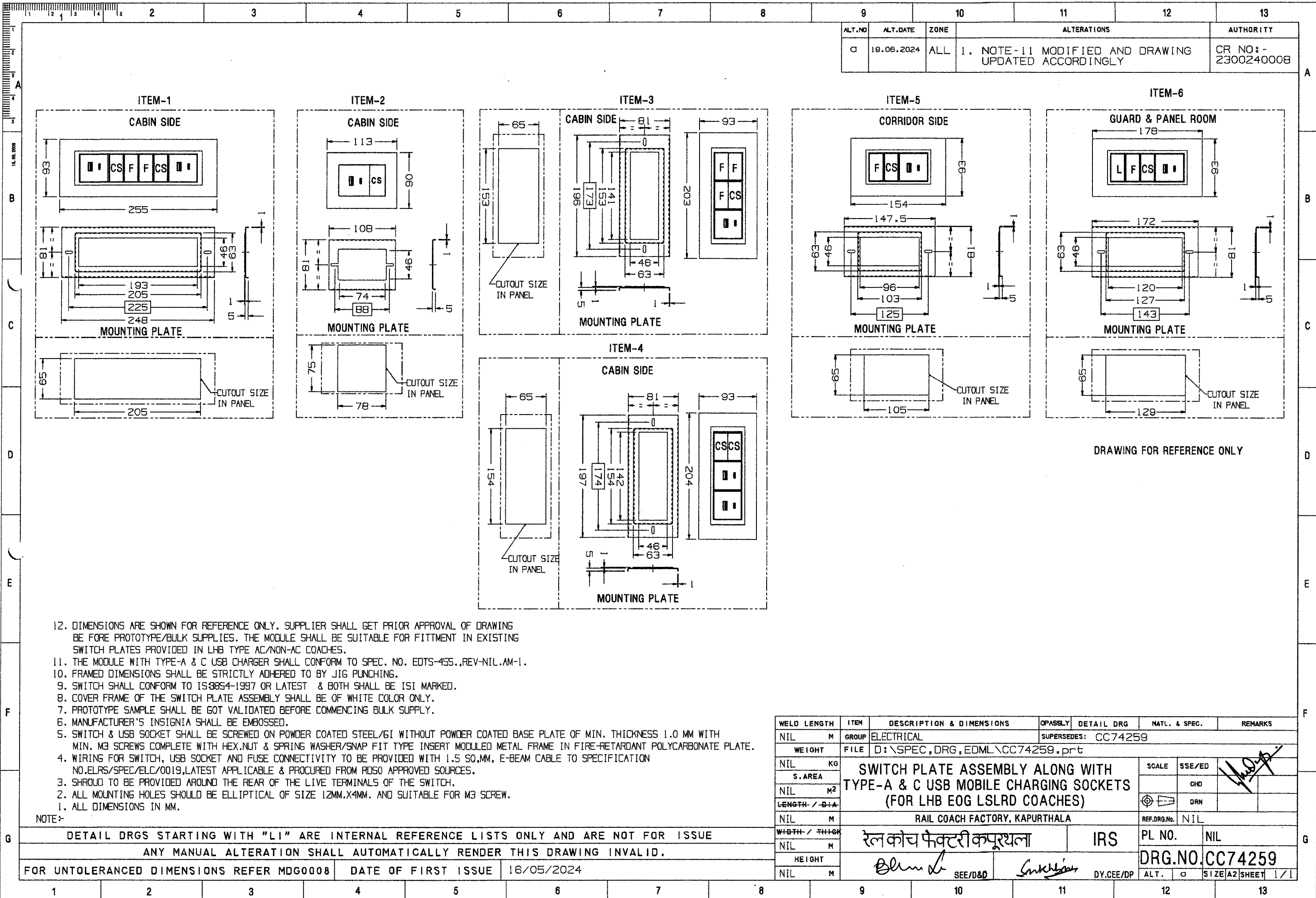
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34/3



ALT.NO	ALT.DATE	ZONE	ALTERATIONS	AUTHORITY
C	19.06.2024	ALL	1. NOTE-11 MODIFIED AND DRAWING UPDATED ACCORDINGLY	CR NO:- 2300240008

WELD LENGTH	ITEM	DESCRIPTION & DIMENSIONS	OPASSLY	DETAIL DRG	NATL. & SPEC.	REMARKS
NIL	M	GROUP ELECTRICAL				
WEIGHT	FILE	D:\SPEC,DRG,EDML\CC74259.prt				
NIL	KG					
S.AREA						
NIL	M2					
LENGTH / DIA						
NIL	M					
WIDTH / THICK						
NIL	M					
HEIGHT						
NIL	M					

SWITCH PLATE ASSEMBLY ALONG WITH TYPE-A & C USB MOBILE CHARGING SOCKETS (FOR LHB EOG LSLRD COACHES)	SCALE	SSE/ED	CHD	DRN
RAIL COACH FACTORY, KAPURTHALA	REF.DRG.No.	NIL		
रेल कोच फैक्टरी कपूरथला	IRS	PL NO.	NIL	
SEE/D&D	DY.CEE/DP	DRG.NO.	CC74259	
		ALT.	C	SIZE/A2 SHEET 1/1

Corrigendum-1 to EDML-226

This Corrigendum is issued to EDML-226 Rev-Nil, Am.-1 to incorporate the following modification:

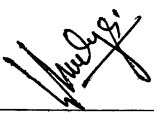
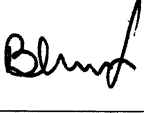
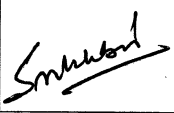
1. EDTS-455, Rev-Nil, Am-1 shall be read as EDTS-455, Rev-Nil, Am-1, Corr.-1

EDML-226, Rev- Nil, Am.-1	1	22.07.24	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	1 of 1
Document . No.	Corr.	Date	Prepared By	SEE/D&D	Dy.CEE/DP	Page

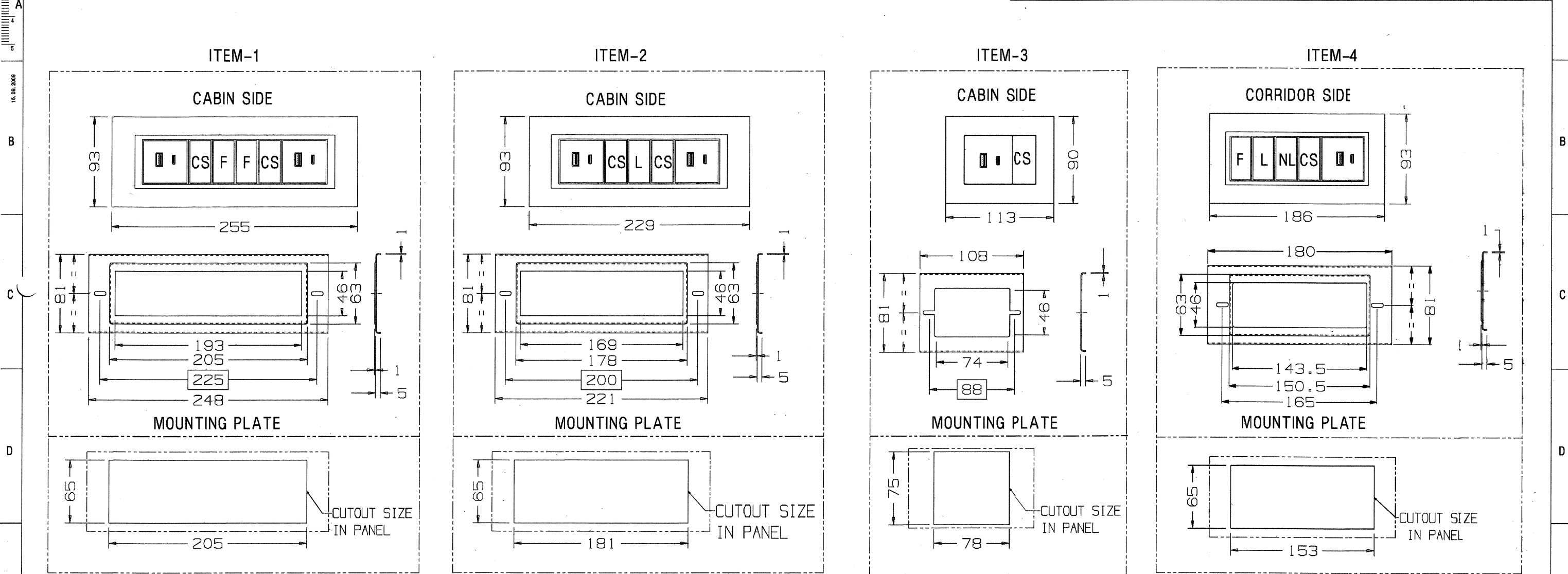
**Corrigendum - 2 to Doc. No. EDML-226, Rev.-Nil.Am-1,Corr-1 for Switch Plate Assembly Along With
USB Mobile Charging Sockets For LHB EOG NON-AC Coaches for Amrit Bharat Rake**

Corrigendum-2 is being issued to document no. **EDML-226, Rev-Nil, Am-1,Corr-1** for Switch plate assembly with Type -A & C USB Mobile Charging Socket for LHB EOG Non-AC type Coaches for Amrit Bharat Rake **(with wider windows)** wherein under given reference drawings have been updated **incorporating the minor corrections in dimensions of Switch Plates**. The details of drawings corrected are as under:

1. Ref. Drg. No. CC74258, **Alt-'a'** shall be read as **CC74258, Alt-'b'**.
2. Ref. Drg. No. CC74259, **Alt-'a'** shall be read as **CC74259, Alt-'b'**.
3. N.B. (iii) (Pg. 3 of 3) (i.e. Wiring for switch, socket to be provided with 1.5 sq.mm E-Beam cable to specification no. ELRS/SPEC/ELC/0019, latest applicable & procured from RDSO approved sources) stands deleted.

EDML-226, Rev-Nil,Am-1, Cor.-1	2	28.08.2024				1 of 1
Document No.	Cor.	Date	SSE/CAD	SEE/D&D	DY.CEE/DP	Page no.

ALT.NO	ALT.DATE	ZONE	ALTERATIONS	AUTHORITY
b	29.08.2024	ALL	1. ITEM-4 UPDATED. 2. NOTE-4 DELETED AND DRAWING MODIFIED ACCORDINGLY.	CR NO:- 2300240018



DRAWING FOR REFERENCE ONLY

12. DIMENSIONS ARE SHOWN FOR REFERENCE ONLY. SUPPLIER SHALL GET PRIOR APPROVAL OF DRAWING BE FORE PROTOTYPE/BULK SUPPLIES. THE MODULE SHALL BE SUITABLE FOR FITTMENT IN EXISTING SWITCH PLATES PROVIDED IN LHB TYPE AC/NON-AC COACHES.
11. THE MODULE WITH TYPE-A & C USB CHARGER SHALL CONFORM TO SPEC. NO. EDTS-455.,REV-NIL-AM-1.
10. FRAMED DIMENSIONS SHALL BE STRICTLY ADHERED TO BY JIG PUNCHING.
9. SWITCH SHALL CONFORM TO IS3854-1997 OR LATEST & BOTH SHALL BE ISI MARKED.
8. COVER FRAME OF THE SWITCH PLATE ASSEMBLY SHALL BE OF WHITE COLOR ONLY.
7. PROTOTYPE SAMPLE SHALL BE GOT VALIDATED BEFORE COMMENCING BULK SUPPLY.
6. MANUFACTURER'S INSIGNIA SHALL BE EMBOSSED.
5. SWITCH & USB SOCKET SHALL BE SCREWED ON POWDER COATED STEEL/GI WITHOUT POWDER COATED BASE PLATE OF MIN. THICKNESS 1.0 MM WITH MIN. M3 SCREWS COMPLETE WITH HEX.NUT & SPRING WASHER/SNAP FIT TYPE INSERT MOULDED METAL FRAME IN FIRE-RETARDANT POLYCARBONATE PLATE.
4. WIRING FOR SWITCH, USB SOCKET AND FUSE CONNECTIVITY TO BE PROVIDED WITH 1.5 SQ.MM, E-BEAM CABLE TO SPECIFICATION NO.ELRS/SPEC/ELC/0019,LATEST APPLICABLE & PROCURED FROM RDSO APPROVED SOURCES.
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2. ALL MOUNTING HOLES SHOULD BE ELLIPTICAL OF SIZE 12MM.X4MM. AND SUITABLE FOR M3 SCREW.
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WELD LENGTH	ITEM	DESCRIPTION & DIMENSIONS	QPASSLY	DETAIL DRG	MATL. & SPEC.	REMARKS
NIL	M	GROUP ELECTRICAL				SUPERSEDES: CC74258a
WEIGHT	FILE	D:\SPEC, DRG, EDML\CC74258a.prt				
NIL	KG	SWITCH PLATE ASSEMBLY ALONG WITH TYPE-A & C USB MOBILE CHARGING SOCKETS (FOR LHB EOG LSCN COACHES)				SCALE
S.AREA						SSE/ED
NIL	M ²					CHD
LENGTH / -0+0						DRN
NIL	M	RAIL COACH FACTORY, KAPJIRTHALA				REF.DRG.No. NIL
WIDTH / THICK		रेल कोच फैक्टरी कपूरथला				PL NO.
NIL	M	IRS				NIL
HEIGHT		Blm d				DRG.NO. CC74258
NIL	M	SEE/D&D				ALT. b
		Suresh				SIZE A2 SHEET 1/1
		DY.CEE/IP				

